IROGRAN® A 95 H 4678

Thermoplastic Polyurethane Elastomer (Polyester)

Huntsman Corporation

Message:

IROGRAN A 95 H 4678 is a thermoplastic polyester-polyurethane for injection moulding applications. Additional characteristics of the product are short cycle times, good melt flows and easy demolding.

PERFORMANCE FEATURES

Easy demolding

Good melt flow

High wear resistance

Dynamically highly loadable

Short cycle times

APPLICATIONS

For the production of technical parts, conveyor rollerswheels and rollers, suitcase wheels and rollers, bearing shells.

General Information				
Features	Fast Molding Cycle			
	Good Flow			
	Good Mold Release			
	Good Wear Resistance			
Uses	Conveyor Parts			
	Engineering Parts			
	Rollers			
	Wheels			
RoHS Compliance	Contact Manufacturer			
Forms	Pellets			
Processing Method	Injection Molding			
Physical	Nominal Value	Unit	Test Method	
Density ¹	1.23	g/cm³		
Melt Volume-Flow Rate (MVR) (210°C/10.0		•		
kg)	78.0	cm³/10min	ISO 1133	
Molding Shrinkage - Flow (Injection Molded)	0.40	%	ASTM D955	
Hardness	Nominal Value	Unit	Test Method	
Durometer Hardness	Tomma Talac		ASTM D2240, ISO 868	
Shore A, Injection Molded	95		<u>`</u>	
Shore D, Injection Molded	45			
Mechanical	Nominal Value	Unit	Test Method	
Abrasion ²	30	mm³	ISO 4649	
Elastomers	Nominal Value	Unit	Test Method	
Tensile Stress ³			ASTM D412, DIN 53504	
100% Strain	13.0	MPa		

300% Strain	26.0	MPa	
Tensile Strength ⁴			
Break	50.0	MPa	ASTM D412
Break	45.0	MPa	DIN 53504
Tensile Elongation ⁵ (Break)	500	%	ASTM D412, DIN 53504
Tear Strength ⁶	120	kN/m	ASTM D624, ISO 34-1
Compression Set ⁷			ASTM D395, ISO 815
23°C, 24 hr	25	%	
70°C, 24 hr	40	%	
Thermal	Nominal Value	Unit	
Melting Temperature	145 to 200	°C	
Injection	Nominal Value	Unit	
Drying Temperature			
	100 to 110	°C	
Hot Air Dryer	80.0 to 90.0	°C	
Drying Time			
	3.0	hr	
Hot Air Dryer	3.0	hr	
Dew Point	-30.0	°C	
Rear Temperature	175 to 195	°C	
Middle Temperature	175 to 195	°C	
Front Temperature	175 to 195	°C	
Nozzle Temperature	180 to 200	°C	
Processing (Melt) Temp	170 to 195	°C	
Mold Temperature	20.0 to 70.0	°C	
Extrusion	Nominal Value	Unit	
Drying Temperature	100 to 110	°C	
Drying Time	3.0	hr	
Hopper Temperature	25.0 to 40.0	°C	
Cylinder Zone 1 Temp.	165 to 190	°C	
Cylinder Zone 2 Temp.	165 to 190	°C	
Cylinder Zone 3 Temp.	165 to 190	°C	
Cylinder Zone 4 Temp.	165 to 190	°C	
Cylinder Zone 5 Temp.	165 to 190	°C	
Adapter Temperature	175 to 195	°C	
Die Temperature	175 to 200	°C	
NOTE			
1.	Injection Molded		
2.	Injection Molded		
3.	Injection Molded		
4.	Injection Molded		
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6.	Injection Molded
7.	Injection Molded

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